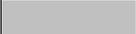


**Chula Vista Climate Change Impacts & Adaptation Options**  
**BUSINESS & ECONOMY**

IMPACT TO SAN DIEGO REGION	VULNERABILITY		ADAPTATION OPTIONS	CRITERIA			NOTES		
	Pressure on Local Systems & Services	Risk*		City Jurisdiction?	Fiscally Feasible?	Complement Current Measures?			
Multiple Impacts	A	Low awareness of climate impacts and changing trends could cause businesses and community to take more costly, reactive measures, rather than early, proactive actions or leverage positive opportunities	MEDIUM Likelihood: 3 Consequence: 5 TOTAL: 15	1	Leverage existing forums (partnerships with business associations, Chula Vista Chamber of Commerce, City website, FREBE program, etc) to raise awareness amongst businesses on changing trends, climate impacts, municipal actions, and resources available to inform business decisions	YES	YES	YES	_____
				2	Add various climate adaptation-related strategies to certification process for the Chula Vista Clean Business Program	YES	YES	YES	_____
				3	Continue to analyze information on potential impacts of climate change on government operations and the local economy, and actively share results with the public to foster an aware and supportive public for adaptation policy	YES	YES	YES	_____
				4	Include businesses in municipal climate adaptation working groups/forums and future adaptation planning to facilitate information exchange	YES	YES	YES	_____
				5	Engage workforce training programs over time, to create support services/retraining in case of job loss as a result of climate change, and promote new and relevant business opportunities	YES	YES	YES	_____
	B	Extreme weather causes potential increased risk for disruptions to transportation systems, energy systems, water supplies	MEDIUM Likelihood: 3 Consequence: 5 TOTAL: 15	7	Where appropriate, engage business in update of the 2015 County Multi-Jurisdictional Hazard Mitigation Plan, which is anticipated to address climate change impacts on existing hazards and response planning	YES	YES	YES	_____
	C	Potential for higher insurance rates through increased risk from wildfires and floods	MEDIUM Likelihood: 3 Consequence: 4 TOTAL: 12	9	Share information with business and residents on emerging insurance products to protect climate-friendly and green building investments (e.g. Fireman's Fund)	YES	YES	YES	_____
	D	Increased pressure on business supply chains due to decrease in available resources, and potentially increasing costs due to growing scarcity (e.g. water, energy, certain local agricultural products, etc.)	MEDIUM Likelihood: 3 Consequence: 4 TOTAL: 12	13	Identify and seek opportunities to diversify local economy in response to global supply chain pressures, in order to reduce effects to the local economy from climate change impacts in other regions	YES	YES	YES	_____
	E	Certain industries may be particularly vulnerable to physical impacts of climate change, due to their business model's sensitivity to climate/weather conditions (e.g. agriculture, tourism, fishing, etc)	LOW Likelihood: 3 Consequence: 2 TOTAL: 6	14	Focus outreach & education of climate impacts to businesses in such industries (agriculture, fisheries, forestry, etc.) where feasible	YES	YES	YES	_____
				15	Generate list of consultants/resources for businesses to assess risks, manage risks, and incorporate into planning	YES	YES	YES	_____
	F	Investors may require greater knowledge of business/economic exposure to climate-related risks	LOW Likelihood: 3 Consequence: 2 TOTAL: 6	19	Work with relevant business associations and community groups to engage businesses in disclosing climate-related risks and corporate climate strategies to meet federal mandates (e.g. SEC Disclosure) and emerging investor preferences for such information	YES	YES	YES	_____
	G	Local economy and buying power of local customers/clients altered by costs from direct or indirect climate impacts	MEDIUM Likelihood: 3 Consequence: 3 TOTAL: 9	20	Actively engage in federal and state policy development, in partnership with local business, to advocate for some diversion of funds raised from cap and trade schemes, or create a local fee authority, to be available for local climate adaptation programs, policies, and plans	YES	YES	YES	_____
				21	Encourage a locally-based carbon credit/offset purchasing program to foster local climate-friendly projects and retain economic benefits from them	YES	YES	YES	_____
22				Provide non-monetary incentives for businesses to locate in Chula Vista that produce sustainable and environmentally-friendly products or that utilize sustainable principles in their production processes as a way to promote economic resilience to climate change	YES	YES	YES	_____	
23				Provide assistance in the creation or identification of markets for sustainable businesses or their products	YES	YES	YES	_____	
Sea level rise	Risk of flooding or inundation of existing and planned public & private infrastructure and critical facilities along coast (commercial or industrial property, municipal buildings, power plants, roads, railways, wastewater treatment, etc.)	HIGH Likelihood: 5 Consequence: 5 TOTAL: 25	24	Perform a detailed vulnerability assessment (identify property at risk, risks of damage, costs of inaction) of existing coastal public and private infrastructure to sea level rise to prioritize vulnerabilities when updating policies, plans, and making public investments. Can Partner with ICLEI's Regional Initiative	YES	YES	YES	ICLEI regional initiative can provide resources for this measure	
			25	Consider building code updates to encourage new coastal structure design to be resilient to potential flood or shore erosion (i.e. raised or behind existing coastal armoring structure),	YES	YES	YES	_____	
			26	Consider new rebuilding guidelines when structures are damaged by sea level rise, coastal storms, or shoreline erosion to lower costs to properties at risk	YES	YES	YES	_____	

				27	See various other prevention measures in upcoming "Coastal Resources and Infrastructure" and "Water" sections to lower physical impacts and thus costs from sea level rise					
Warmer temperatures, especially in summer, and more varied precipitation	I	Greater potential health costs incurred from increasing frequency and intensity of heat waves, and higher ground level ozone	MEDIUM Likelihood: 3.5 Consequence: 4 TOTAL: 14	28	Mitigate health impacts and costs of heat waves by working with the County to ensure that all Chula Vista city departments and community groups possibly involved in implementing the County's Excessive Heat Response Plan are aware and equipped to perform their role during high heat events	YES	YES	YES		
				29	Mitigate health impacts and costs of ozone-related respiratory illness by partnering with local air quality management district (APCD) to enhance awareness of air quality index alerts and related outreach and education to protect residents' health	YES	YES	YES		
				30	See other prevention measures from "Public Health & Wildfire" sections to lower susceptibility to and thus costs from heat and ozone-related illness					
	J	Vulnerable workforce to interruptions from high heat events, especially industries such as construction, outdoor laborers, and roofing	MEDIUM Likelihood: 3.5 Consequence: 4 TOTAL: 14	31	Mitigate health impacts and costs of heat waves through outreach to businesses about California Occupational Safety and Health programs and standards for heat illness and employees working outdoors, in partnership with any relevant business, labor, or community groups	YES	YES	YES		
				32	Enroll all municipal facilities in demand response programs (if applicable), in part to reduce peak demand and energy costs	YES	YES	YES		
	K	Increasing pressure and costs to meet rising energy demands, especially in hot summers when cooling needs are greater and transmission inefficiencies are highest	HIGH Likelihood: 5 Consequence: 4 TOTAL: 20	33	Develop incentives or financing mechanisms to expand urban forests on public & private properties to reduce heat island effect and energy costs in high heat	YES	YES	YES		
				36	See various other prevention measures from "Energy" sections to lower risks from rising energy demands, rates, and costs to economy					
				37	Require buildings to obtain complete water efficiency retrofit on resale, to reduce water consumption and water bills over time	YES	YES	YES		
	L	Lower water supplies available for commercial, industrial, and community users, and exposure to extended and more intense droughts	HIGH Likelihood: 4 Consequence: 4 TOTAL: 16	38	Integrate water conservation concerns into the municipal project procurement process, to reduce water consumption and water bills over time	YES	YES	YES		
				40	See various other prevention measures from "Water" section intended to lower physical and thus financial impact of drought, floods, increasing water rates					
				41	Direct city staff to investigate whether the city's building codes, wildlife urban interface code, and zoning rules need revision due to future increases in wildfires due to climate change	YES	YES	YES		
	M	Higher risk of incurring costs of losing public and private infrastructure due to more frequent and intense fires	MEDIUM Likelihood: 2 Consequence: 5 TOTAL: 10	42	Identify high fire risk areas that would allow for the safe burial of existing power lines (coordinated with road improvement projects and upgrades in the Capital Improvement Program) to avoid interruptions due to wildfire events	YES	YES	YES		
				43	See various other prevention measures from "Public Health & Wildfire" sections intended to lower frequency of wildfires, as well as assets exposed to high fire risk					
	N	Higher risk of losing protected coastal, riparian or inland ecosystems, plants and animals due to rate of temperature change, increasing wildfires, changing precipitation, and sea level rise	MEDIUM Likelihood: 3 Consequence: 4 TOTAL: 12	44	Seek potential funding opportunities for fuel management to reduce fire frequency, in balance with efforts to reduce ignition sources, educate the public, and other best practices in managing the wildland urban interface	YES	YES	YES	Option #45 was duplicative of Option #44, so it was removed from the list	
46				See various other prevention measures from "Ecosystems & Biodiversity" sections intended to lower physical impacts and potential costs to economy from loss of ecosystems and local natural resources						

\*RISK = Likelihood of an Impact X Consequence of the Impact; each factor scored from 1 to 5 and overall risk was categorized as "Low" (1-7 total score), "Medium" (8-15 total score), and "High" (16-25 total score).

 - Business-related adaptation option is already addressed on "CCWG Prioritized Measures List" or was removed from list through vetting process